

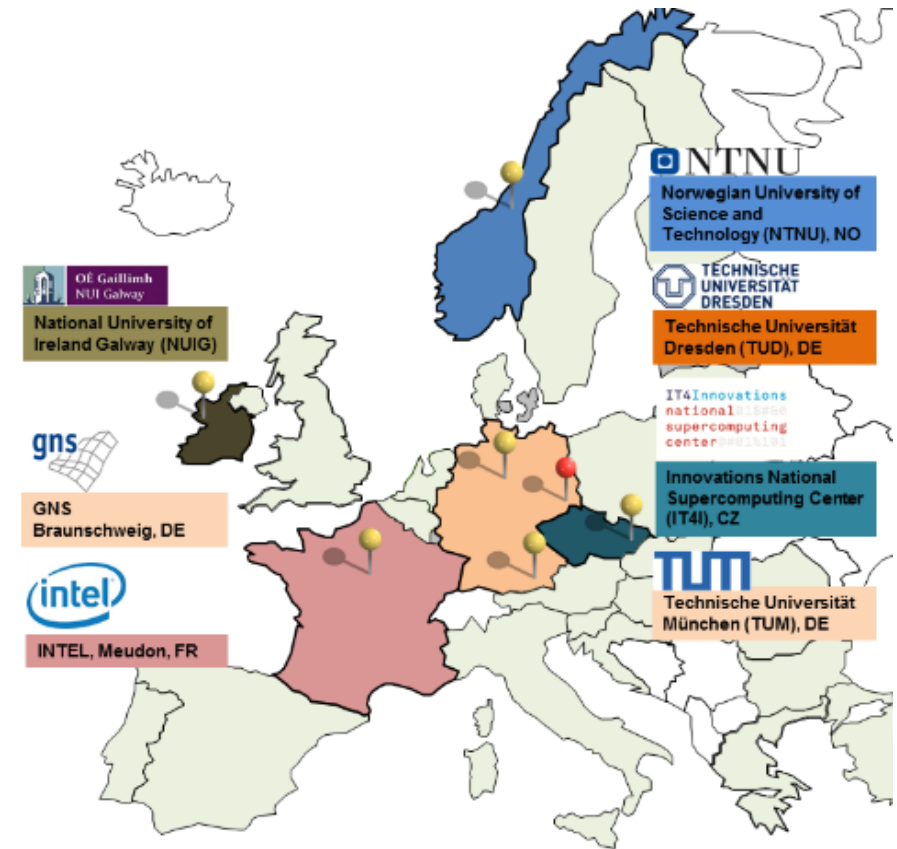
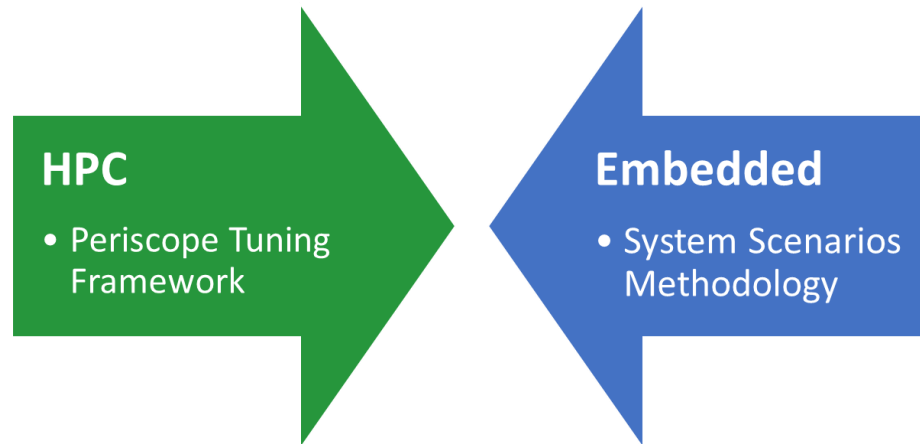
READEX

Runtime Exploitation of Application Dynamism
for Energy-efficient eXascale computing

READEX – Objectives

Goal: Improve energy-efficiency of parallel applications by exploiting runtime dynamic behavior

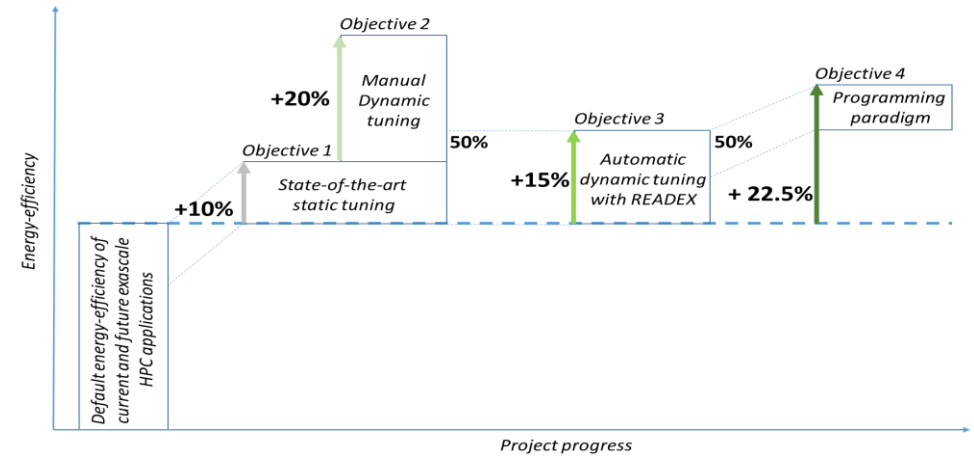
Integrated tool-suite for analysis and tuning
Combine technologies from HPC and Embedded Systems



READEX – Outcome

Co-design approach

- Manual analysis and tuning efforts
- Automatic tuning using READEX tool-suite
- Comparison of effort and improvement in energy efficiency



Applications

- PERMON and ESPRESO
- INDEED
- CORAL Benchmarks
- European benchmarks

